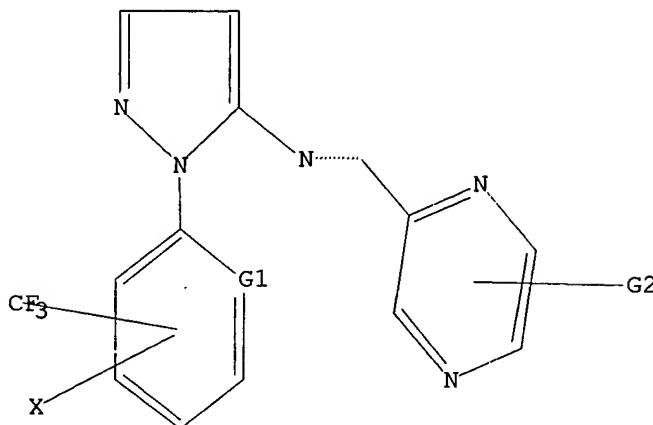


L Number	Hits	Search Text	DB	Time stamp
1	1633	544/405, 514/255.05	USPAT; US-PPGPUB	2003/09/03 11:47
2	16910	pest or insecticide	USPAT; US-PPGPUB	2003/09/03 11:47
3	51	(544/405, 514/255.05) and (pest or insecticide)	USPAT; US-PPGPUB	2003/09/03 11:48

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L1 STRUCTURE UPLOADED

=> d 11  
L1 HAS NO ANSWERS  
L1 STR



G1 C,N  
G2 H,Ak,X

Structure attributes must be viewed using STN Express query preparation.

=> s 11  
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SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS 1 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 1 TO 80  
PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> s 11 sss full  
FULL SEARCH INITIATED 09:15:48 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 26 TO ITERATE

100.0% PROCESSED 26 ITERATIONS 24 ANSWERS  
SEARCH TIME: 00.00.01

L3 24 SEA SSS FUL L1

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COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION

FULL ESTIMATED COST

148.55 148.76

FILE 'CAPLUS' ENTERED AT 09:15:53 ON 03 SEP 2003  
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FILE COVERS 1907 - 3 Sep 2003 VOL 139 ISS 10  
FILE LAST UPDATED: 1 Sep 2003 (20030901/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13  
L4 5 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN  
ACCESSION NUMBER: 2002:900798 CAPLUS

DOCUMENT NUMBER: 138:4595

TITLE: Preparation of heteroaryl fluoroalkyl sulfides  
INVENTOR(S): Okui, Chikako; Sumitani, Naoko; Okano, Katuya  
PATENT ASSIGNEE(S): MITSUMIshi Chemical Corp., Japan  
SOURCE: Jon. Kokai Tokkyo Koho, 7 pp.

CODEN: JIKKAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002338547	A2	20021127	JP 2001-151958	20010522
PRIORITY APPLN. INFO.:			JP 2001-151958	20010522
OTHER SOURCE(S):	CASREACT 138:4595; MARPAT 138:4595			

GI



AB The sulfides I [R = SR<sub>1</sub>; R<sub>1</sub> = fluoroalkyl; sing A = (un)substituted heteroarom. sing], useful as drugs and agrochems. (no data), e.g. insecticidal (trifluoromethylsulfonyl)pyrazoles, are prepd. by treating R150282 [R1 = same as above; R2 = (un)substituted alkyl, aryl] with I (R = H; A = same as above). A mixt. of 1-(2,6-dichloro-4-trifluoromethylphenyl)-3-cyano-5-aminopyrazole and p-toluenesulfonic acid dimethylammonium salt was treated with a toluene soln. of CF<sub>3</sub>SSO<sub>2</sub>CF<sub>3</sub> at room temp., overnight, to give 60% 1-(2,6-dichloro-4-trifluoromethylphenyl)-3-cyano-4-trifluoromethylsulfonyl-5-aminopyrazole at 96% conversion.

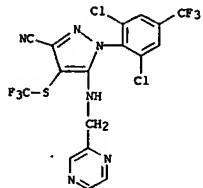
IT 315208-06-1P

RL: IMP (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of heteroaryl fluoroalkyl sulfides by sulfonylation of heteroarom. compds. with S-fluoroalkyl thiosulfonates)

RN 315208-06-1 CAPLUS

CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-[(pyrazinylmethyl)amino]-4-[(trifluoromethyl)thio]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

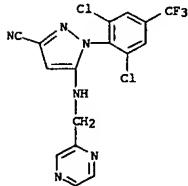


IT 315208-03-8

RL: RCT (Reactant); RACT (Reactant or reagent)  
(prepn. of heteroaryl fluoroalkyl sulfides by sulfonylation of heteroarom. compds. with S-fluoroalkyl thiosulfonates)

RN 315208-03-8 CAPLUS

CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-[(pyrazinylmethyl)amino]- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:747747 CAPLUS

DOCUMENT NUMBER: 137:279212

TITLE: Preparation of pyrazoles as insecticides and pesticides

INVENTOR(S): Okui, Chikako

PATENT ASSIGNEE(S): MITSUMIshi Chemical Corp., Japan  
SOURCE: Jon. Kokai Tokkyo Koho, 13 pp.

CODEN: JIKKAF

DOCUMENT TYPE: Patent

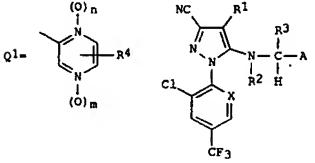
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002284781	A2	20021003	JP 2001-86953	20010326
PRIORITY APPLN. INFO.:			JP 2001-86953	20010326
OTHER SOURCE(S):	MARPAT 137:279212			

GI



AB The title compds. I [X = N, etc.; R<sub>1</sub> = halo, etc.; R<sub>2</sub> = H, alkyl, etc.; R<sub>3</sub> = H, alkyl; A = Q1, etc.; m, n = 0 or 1; R<sub>4</sub> = H, alkyl, etc.] are prepd. Compds. of this invention at 500 ppm gave 100% kill of larvae of Spodoptera litura.

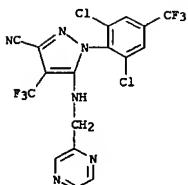
IT 465499-39-2P 465499-40-5P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of pyrazoles as insecticides and pesticides)

RN 465499-39-2 CAPLUS

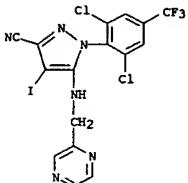
CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-[(pyrazinylmethyl)amino]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



RN 465499-40-5 CAPLUS

CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-iodo-5-[(pyrazinylmethyl)amino]- (9CI) (CA INDEX NAME)

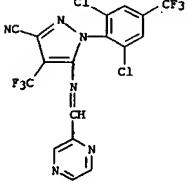


IT 465499-41-6P 465499-42-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. of pyrazoles as insecticides and pesticides)

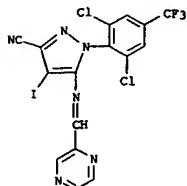
RN 465499-41-6 CAPLUS

CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-[(pyrazinylmethylene)amino]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN 465499-42-7 CAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-iodo-5-[(pyrazinylmethylene)amino]- (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN  
ACCESSION NUMBER: 2002-658075 CAPLUS  
DOCUMENT NUMBER: 137:201303  
TITLE: Process for preparation of polyfluoroalkylsulfenyl compounds  
INVENTOR(S): Okano, Kazuya; He, Liangyou  
PATENT ASSIGNEE(S): Mitsubishi Chemical Corporation, Japan  
SOURCE: PCT Int. Appl., 41 pp.  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

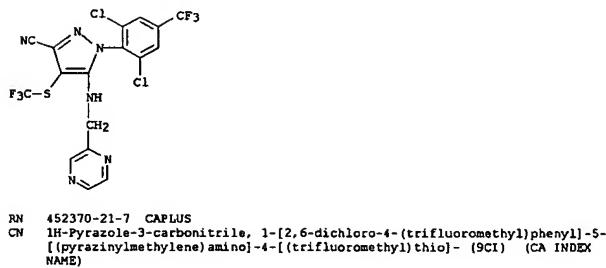
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002066423	A1	20020829	WO 2002-JP1558	20020221
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GN, HR, HO, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MN, MW, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, UG, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BE, BJ, CF, CG, CL, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TO, TG				
JP 2002249480	A2	20020906	JP 2001-46036	20010222
JP 2002249485	A2	20020906	JP 2001-46037	20010222
JP 2003126544	A2	20030508	JP 2001-318198	20011016

PRIORITY APPLN. INFO.: JP 2001-46036 A 20010222  
JP 2001-46037 A 20010222  
JP 2001-318198 A 20011016

OTHER SOURCE(S): CASREACT 137:201303; MARPAT 137:201303  
AB Disulfides react with hydrazine and/or metal borohydrides and polyfluoroalkyl halides to prep. the title compds. Thus, bis(1-(2,6-dichloro-4-trifluoromethylphenyl)-3-carbonitrile-5-(pyrazine-2-ylmethlamino)pyrazole-4-yl) disulfide was prepd., mixed with an aq. soln. contg. K carbonate and hydrazine and treated with CF3I to prep. 1-(2,6-dichloro-4-trifluoromethylphenyl)-4-trifluoromethylsulfenyl-5-(pyrazine-2-ylmethlamino)pyrazole-2-ylmethlamino)pyrazole-3-carbonitrile. IT 315208-06-18 452370-21-79

RL: IMF (Industrial manufacture); PREP (Preparation)  
(reaction of disulfides and hydrazine and metal borohydrides and polyfluoroalkyl halides for prepn. of polyfluoroalkylsulfenyl compds.)  
RN 315208-06-1 CAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-[(pyrazinylmethyl)amino]-4-[(trifluoromethyl)thio]- (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

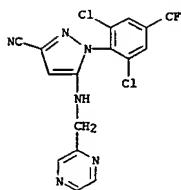


RN 452370-21-7 CAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-[(pyrazinylmethylene)amino]-4-[(trifluoromethyl)thio]- (9CI) (CA INDEX NAME)

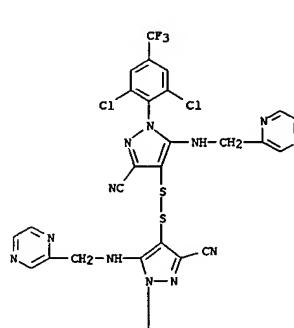


IT 315208-03-8P 315208-37-8P 452370-20-6P  
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
(reaction of disulfides and hydrazine and metal borohydrides and polyfluoroalkyl halides for prepn. of polyfluoroalkylsulfenyl compds.)  
RN 315208-03-8 CAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-[(pyrazinylmethyl)amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



RN 315208-37-8 CAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 4,4'-dithiobis[1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-[(pyrazinylmethyl)amino]- (9CI) (CA INDEX NAME)

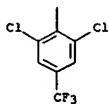


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L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

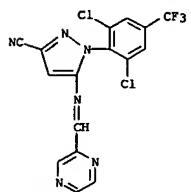
(Continued)

PAGE 2-A



RN 452370-20-6 CAPLUS

CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-[(pyrazinylmethylene)amino]- (9CI) (CA INDEX NAME)



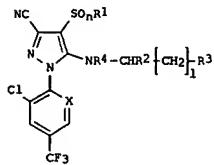
REFERENCE COUNT:

5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 2002-514177 CAPLUS  
 DOCUMENT NUMBER: 137:59011  
 TITLE: Agrochemical insecticide and fungicide compositions containing pyrazoles  
 INVENTOR(S): Fukuchi, Toshiki  
 PATENT ASSIGNEE(S): Mitsubishi Chemical Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.  
 CODEN: JKKCAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002193709	A2	20020710	JP 2000-397319	20001227
PRIORITY APPLN. INFO.:			JP 2000-397319	20001227
OTHER SOURCE(S):		MARPAT 137:59011	GI	



I

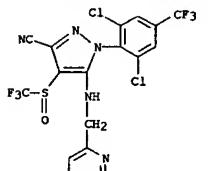
AB The compns. contain insecticidal pyrazoles I [R<sup>1</sup> = Cl-4-(halo)alkyl; R<sup>2</sup> = H, Cl-4-alkyl, Cl-4-acyl; X = N, halo-substituted C, 1 - n, 0, 1, 2], insecticidal compds. controlling Hemiptera and Coleoptera, and fungicidal compds. controlling Pyricularia oryzae. The compns. show broad-spectrum and long-lasting pesticidal effect and are useful for rice. A granule was prep'd. from I (R<sup>1</sup> = CH<sub>2</sub>F, R<sup>2</sup> = H, R<sup>3</sup> = pyrazin-2-yl, X = CCl, 1 - n = 0) 1, benfuracarb 5 wt. parts, lignosulfonate 5 wt. parts.

IT 315207-96-6 315208-17-4 RL AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses); (agrochem, insecticide and fungicide compns. for rice)

RN 315207-96-6 CAPLUS

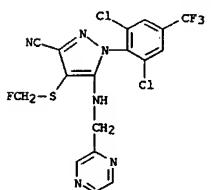
CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-[(pyrazinylmethyl)amino]-4-[(trifluoromethyl)sulfinyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



RN 315208-17-4 CAPLUS

CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(fluoromethyl)thio]-5-[(pyrazinylmethyl)amino]- (9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 2001-12447 CAPLUS  
 DOCUMENT NUMBER: 134:71609

TITLE: Preparation of 4-amino-1-phenyl-3-cyanopyrazole derivatives and process for producing the same, and pesticides containing the same as the active ingredient

INVENTOR(S): Okui, Shuko; Kiyomura, Nobuo; Fukuchi, Toshiki; Tanaka, Kenji; Katsurada, Manabu; Okano, Kazuya; Sumanita, Naoko; Miyachi, Akiko; Yabe, Akiko

PATENT ASSIGNEE(S): Mitsubishi Chemical Corporation, Japan

SOURCE: PCT Int. Appl., 64 pp.

DOCUMENT TYPE:

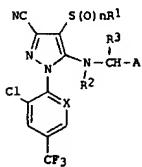
LANGUAGE: Patent

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 200100614	A1	20010104	WO 2000-JP4258	20000628
W: AF, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, KE, KG, KP, KR, LZ, LV, LR, LS, LT, LU, MA, MD, MG, MK, MN, MW, XK, MZ, NO, NZ, PL, PT, RO, RU, SD, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, HD, RU, TJ, TM, RW, GH, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
JP 2001072676	A2	20010321	JP 2000-192073	20000627
EP 1197492	A1	20020417	EP 2000-940868	20000628
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 2000011992	A	20020702	BR 2000-11992	20000628
US 2003060471	A1	20030327	US 2001-28786	20011228
PRIORITY APPLN. INFO.:			JP 1399057316	19990629
OTHER SOURCE(S):		MARPAT 134:71609	WO 2000-JP4258	20000628

GI



I

AB Novel 1-aryl-3-cyano-5-heteroarylalkylaminopyrazole derivs. represented by 9/03/2003

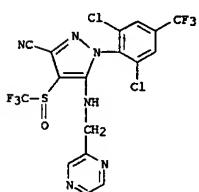
L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)  
 general formula (I): A = (un)substituted piperazine, pyrimidine, pyridine, or pyridazine; X represents N or C-halogen; R1 represents alkyl, alkenyl, alkynyl or haloalkyl; R2 represents hydrogen, alkyl or acyl; R3 represents hydrogen or alkyl; and n is 0, 1 or 2, provided that R1 is haloalkyl (other than perhaloalkyl) when A is Q and n is 0, and that n is not 0 when A is Q3 are prep'd. These compds. are useful as pesticides against insects, aphids, and flea having a high penetration/migration activity and a high safety with little effect on the application environment. Thus, 5-amino-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-trifluoromethylsulfinylpyrazole-3-carbonitrile and 2-formylpyrazine were refluxed in the presence of p-MeC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H·H<sub>2</sub>O in toluene with removal of water for 10 to give crude 1-(2,6-dichloro-4-trifluoromethylphenyl)-4-trifluoromethylsulfinyl-5-[(pyrazin-2-ylmethylene)amino]pyrazole-3-carbonitrile which was reduced by NaBH<sub>4</sub> in MeOH with stirring at room temp. for 1 h to give 1-(2,6-dichloro-4-trifluoromethylphenyl)-4-trifluoromethylsulfinyl-5-[(pyrazin-2-ylmethyl)amino]pyrazole-3-carbonitrile (II). II at 500 ppm killed 100% Nilaparvata lugens larvae on rice seedlings.

IT 315208-96-6P 315207-98-BP 315208-06-1P  
 315208-09-4P 315208-10-7P 315208-12-9P  
 315208-14-1P 315208-17-4P 315208-20-9P

RL: ARA (Analytical reagent use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prep. of aminophenylcyanopyrazole derivs. as pesticides against insects, aphids, and flea)

RN 315207-96-6 CAPLUS

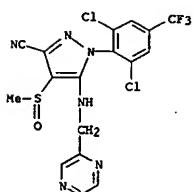
CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-[(pyrazinylmethyl)amino]-4-[(trifluoromethyl)sulfinyl]- (9CI) (CA INDEX NAME)



RN 315207-98-8 CAPLUS

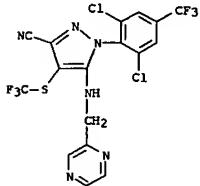
CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-(methylsulfinyl)-5-[(pyrazinylmethyl)amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



RN 315208-06-1 CAPLUS

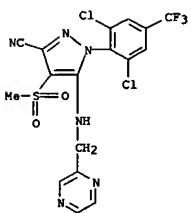
CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-[(pyrazinylmethyl)amino]-4-[(trifluoromethyl)thio]- (9CI) (CA INDEX NAME)



RN 315208-09-4 CAPLUS

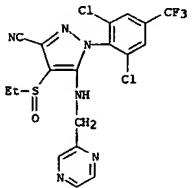
CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-(methylsulfonyl)-5-[(pyrazinylmethyl)amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



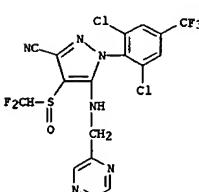
RN 315208-10-7 CAPLUS

CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-(ethylsulfinyl)-5-[(pyrazinylmethyl)amino]- (9CI) (CA INDEX NAME)



RN 315208-12-9 CAPLUS

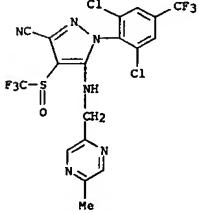
CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(difluoromethyl)sulfinyl]-5-[(pyrazinylmethyl)amino]- (9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

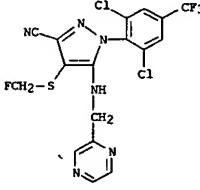
RN 315208-14-1 CAPLUS

CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-[(5-methylpyrazinyl)methyl]amino]-4-[(trifluoromethyl)sulfinyl]- (9CI) (CA INDEX NAME)



RN 315208-17-4 CAPLUS

CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(fluoromethyl)thio]-5-[(pyrazinylmethyl)amino]- (9CI) (CA INDEX NAME)

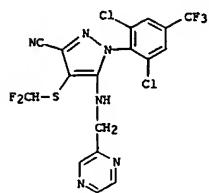


RN 315208-20-9 CAPLUS

CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(difluoromethyl)thio]-5-[(pyrazinylmethyl)amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

(Continued)

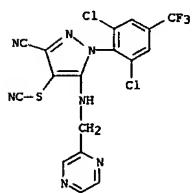


IT 315208-07-2 315208-37-8

RN: RCT (Reactant); RACT (Reactant or reagent)  
(prep. of aminophenylcyanopyrazole derivs. as pesticides against insects, aphids, and flea)

RN 315208-07-2 CAPLUS

CN Thiocyanic acid, 3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-((pyrazinylmethyl)amino)-1H-pyrazol-4-yl ester (9CI) (CA INDEX NAME)



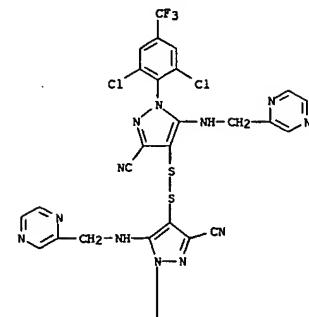
RN 315208-37-8 CAPLUS

CN 1H-Pyrazole-3-carbonitrile, 4,4'-dithiobis[1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-((pyrazinylmethyl)amino)-1H-pyrazol-4-yl] ester (9CI) (CA INDEX NAME)

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

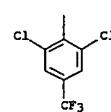
(Continued)

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IT 315207-97-7P 315207-99-9P 315208-01-6P  
315208-02-7P 315208-03-8P 315208-04-9PRN: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prep. of aminophenylcyanopyrazole derivs. as pesticides against insects, aphids, and flea)

RN 315207-97-7 CAPLUS

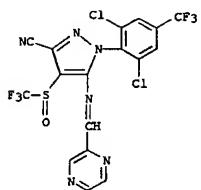
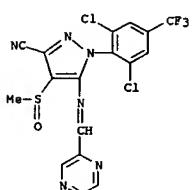
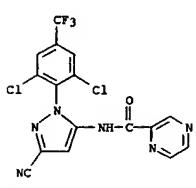
CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-((pyrazinylmethylene)amino)-4-[(trifluoromethyl)sulfinyl]-1H-pyrazol-4-yl ester (9CI) (CA INDEX NAME)



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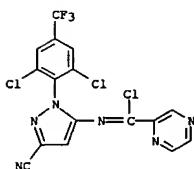
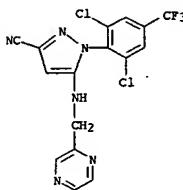
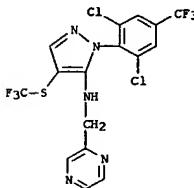
L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

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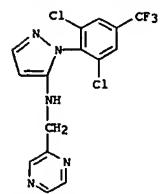
RN 315207-99-9 CAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-((methylsulfinyl)-5-((pyrazinylmethylene)amino)-1H-pyrazol-5-yl) - (9CI) (CA INDEX NAME)RN 315208-01-6 CAPLUS  
CN Pyrazinecarboxamide, N-[3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazol-5-yl] - (9CI) (CA INDEX NAME)RN 315208-02-7 CAPLUS  
CN Pyrazinecarboximidoyl chloride, N-[3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazol-5-yl] - (9CI) (CA INDEX NAME)

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

(Continued)

RN 315208-03-8 CAPLUS  
CN 1H-Pyrazole-3-carbonitrile, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-((pyrazinylmethylene)amino)-1H-pyrazol-4-yl ester (9CI) (CA INDEX NAME)RN 315208-04-9 CAPLUS  
CN Pyrazinemethanamine, N-[1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(trifluoromethyl)thio]-1H-pyrazol-5-yl] - (9CI) (CA INDEX NAME)RN 315208-05-0 CAPLUS  
CN Pyrazinemethanamine, N-[1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazol-5-yl] - (9CI) (CA INDEX NAME)

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
23.10	171.86

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY	TOTAL SESSION
-3.26	-3.26

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Habte

9/03/2003